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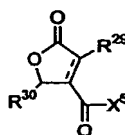
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(54) Title: NOVEL COMPOUNDS, PHARMACEUTICAL COMPOSITIONS CONTAINING SAME, AND METHODS OF USE FOR SAME



(IX)

(57) Abstract: Pharmaceutical composition comprising a pharmaceutical diluent and a compound of formula IX: R<sup>29</sup> = H, or C<sub>1</sub>-C<sub>20</sub> alkyl, cycloalkyl, alkenyl, aryl, arylalkyl, or alkylaryl, =CHR<sup>31</sup>, -C(O)OR<sup>31</sup>, -C(O)R<sup>31</sup>, -CH<sub>2</sub>C(O)OR<sup>31</sup>, CH<sub>2</sub>C(O)NHR<sup>31</sup>, where R<sup>31</sup> is H or C<sub>1</sub>-C<sub>10</sub> alkyl, cycloalkyl, or alkenyl; R<sup>30</sup> = C<sub>1</sub>-C<sub>20</sub> alkyl, cycloalkyl, alkenyl, aryl, arylalkyl, or alkylaryl; X<sup>5</sup> = -OR<sup>32</sup>, or NHR<sup>32</sup>, where R<sup>32</sup> is H, C<sub>1</sub>-C<sub>20</sub> alkyl, cycloalkyl, alkenyl, aryl, arylalkyl, or alkylaryl, the R<sup>32</sup> group optionally containing a carbonyl group, a carboxyl group, a carboxamide group, an alcohol group, or an ether group, the R<sup>32</sup> group further optionally containing one or more halogen atoms; with the proviso that when R<sup>29</sup> is =CH<sub>2</sub>, then X<sup>5</sup> is not OH. Also disclosed are compounds within the scope of the formula IX, as well as uses of the pharmaceutical compositions for weight loss, anti-microbial and anti-cancer applications, inhibition of fatty acid synthase and neuropeptide-Y, and the stimulation of the activity of carnitine palmitoyl transferase-1.

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